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CLAIM:

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1. A box beam, comprising, in combination:
  - a) an elongate web having opposite edge portions and opposite side portions;
  - b) a pair of elongate flanges running parallel to each other and along the opposite edge portions of the elongate web, with each of the opposite edge portions extending at least partially into the flanges, with the elongate web and elongate flanges forming an I-beam portion; and
  - c) a first outer elongate plate member running parallel to the elongate web, with the first outer elongate plate member being fixed to each of the elongate flanges, with the first outer elongate plate member having a side confronting, spaced from, and running parallel to one of the side portions of the elongate web whereby a greater load bearing capacity is provided to the I-beam portion, with at least one of the web, flanges, and first outer elongate plate member being formed substantially of an organic matter.
2. The modified box beam of claim 1 wherein each of the flanges includes opposite faces, and wherein the first outer elongate plate member is fixed to one of the faces of each of the flanges.
3. The modified box beam of claim 1 wherein the first outer elongate plate member includes opposite edge portions, with one of the opposite edge portions of the first outer elongate plate member extending and terminating beyond the opposite edge portion of one of the flanges such that an "L" shaped receiver is formed at such opposite edge portions.
4. The modified box beam of claim 3 and further comprising a second outer elongate plate member, with each of the outer elongate plate members on opposite side portions of the elongate web and extending and terminating beyond the same opposite edge portion of one of the flanges such that the L-shaped receiver is turned into a channel receiver formed at such opposite edge portions.
5. The modified box beam of claim 1 wherein each of the elongate flanges comprises layers, with each of the layers having a face and an edge, with each of the faces

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being of greater width than each of the edges, with the faces being at a right angle to the side portions of the elongate web.

6. The modified box beam of claim 1 wherein each of the outer elongate plate members and elongate webs comprises oriented strand board.

7. The modified box beam of claim 1 wherein each of the outer elongate plate members and elongate webs comprises compressed wood strands arranged in layers at generally right angles to one another and bonded with a waterproof adhesive.

8. The modified box beam of claim 4 wherein each of the layers comprises wood.

9. The modified box beam of claim 1 and further comprising, in combination: at least two I-beam portions, with the I-beam portions being engaged to each other end to end at a first location, with the first outer elongate plate member spanning the first location.

10. The modified box beam of claim 9 and further comprising, in combination: at least two first outer elongate plate members, with the at least two first outer elongate plate members being engaged to each other end to end at a second location, with the first and second locations being staggered relative to each other.

11. The modified box beam of claim 9 and further comprising, in combination:

a) the first outer elongate plate member including opposite edge portions, with one of the opposite edge portions of the first outer elongate plate member extending and terminating beyond the opposite edge portion of one of the flanges;

b) a second outer elongate plate member, with each of the outer elongate plate members on opposite side portions of the elongate web and extending and terminating beyond the same opposite edge portion of one of the flanges such that a channel receiver is formed at such opposite edge portions; and

c) with the second elongate plate member spanning the first location.

12. The modified box beam of claim 11 and further comprising, in combination: at least two second outer elongate plate members, with the at least two second outer elongate plate members being engaged to each other end to end at a third location, with the first and third locations being staggered relative to each other.

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Title: Organic I- A Soffit

Inventor: Leslie et al.

47 Attorney Docket Number: IBC-Soffit1

Express Mail: EI484087588US

13. The modified box beam of claim 12 and further comprising, in combination:  
at least two first outer elongate plate members, with the at least two first outer elongate  
plate members being engaged to each other end to end at a second location, with the first,  
second, and third locations being staggered relative to each other.

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14. A support structure for use as a building jig, comprising, in combination:

a) a set of first I-beam structures, with each of the first I-beam structures comprising in combination:

- i) an elongate web having opposite edge portions and opposite side portions;
- ii) a pair of elongate flanges running parallel to each other and along the opposite edge portions of the elongate web, with the elongate web and elongate flanges forming an I-beam portion;
- iii) a first outer elongate plate member running parallel to the elongate web, with the first outer elongate plate member being fixed to each of the elongate flanges, with the first outer elongate plate member having a side confronting, spaced from, and running parallel to one of the side portions of the elongate web whereby a greater load bearing capacity is provided to the I-beam portion; and
- iv) with the first outer elongate plate member including opposite edge portions, with one of the opposite edge portions of the first outer elongate plate member extending and terminating beyond the opposite edge portion of one of the flanges such that an L-shaped receiver is formed at such opposite edge portions; and

b) with one of the first I-beam structures being fixed to another I-beam structure at an angle.

15. The support structure of claim 14

- a) wherein the angle is a right angle;
- b) wherein opposite flanges lie in one of two respective opposite planes defined by the opposite flanges; and
- c) wherein each of the inner and outer elongate plate members lie at a right angle to the planes whereby a true building jig is provided.

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16. The support structure of claim 14 wherein the outer elongate support member is disposed inwardly relative to the support structure such that the "L" shaped receiver is disposed outwardly of the support structure.

17. The support structure of claim 14 and further comprising, in combination:

a) at least a second I-beam structure comprising in combination:

- i) an elongate web having opposite edge portions and opposite side portions;
- ii) a pair of elongate flanges running parallel to each other and along the opposite edge portions of the elongate web of the second I-beam structure, with the elongate web and elongate flanges of the second I-beam structure forming a second I-beam portion;
- iii) a first outer elongate plate member running parallel to the elongate web of the second I-beam structure, with the first outer elongate plate member of the second I-beam structure being fixed to each of the elongate flanges of the second I-beam structure, with the first outer elongate plate member of the second I-beam structure having a side confronting, spaced from, and running parallel to one of the side portions of the elongate web of the second I-beam structure whereby a greater load bearing capacity is provided to the second I-beam portion;
- iv) with the first outer elongate plate member of the second I-beam structure including opposite edge portions, with one of the opposite edge portions of the first outer elongate plate member of the second I-beam structure extending and terminating beyond the opposite edge portion of one of the flanges of the second I-beam structure; and
- v) a second outer elongate plate member, with each of the outer elongate plate members of the second I-beam structure on opposite side portions of the elongate web of the second I-beam structure and extending and terminating beyond the same opposite edge portion of one of the flanges of

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the second I-beam structure such that a channel receiver is formed at such opposite edge portions; and

b) with the second I-beam structure fixed at an angle to one of the first I-beam structures.

18. The support structure of claim 17 wherein the angle with which the second I-beam structure is fixed to the first I-beam structure is a right angle.

19. The support structure of claim 17 wherein the second I-beam structure is fixed to and between two first I-beam structures.

20. The support structure of claim 17 and further comprising, in combination: at least two of the second I-beam structures running parallel to each other.

21. The support structure of claim 20 and further comprising, in combination: at least another second I-beam structure running at a right angle and engaging the second I-beam structures which run parallel to each other.

22. The support structure of claim 14 and further comprising, in combination: a first wall portion, with the first wall portion being engaged by the L-shaped receiver, and with the first wall portion extending at a right angle to the planes.

23. The support structure of claim 17 and further comprising, in combination: first and second wall portions, with the first wall portion being engaged by the L-shaped receiver of the first I-beam structure, with the second wall portion being engaged by the channel receiver of the second I-beam structure, and with the first and second wall portions engaging each other.

24. The support structure of claim 23 wherein the first and second wall portions interlock with each other.

25. The support structure of claim 17 wherein the support structure comprises a floor portion engaging the first and second I-beam structures, with the floor portion being openable such that at least a portion of the channel receiver is exposable whereby a wall portion may be mounted in the portion of the channel receiver exposed.

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26. A support structure for a shelter comprising, in combination:

- a) a plurality of I-beams, with each of the I-beams comprising an elongate web with upper and lower edges, upper and lower flanges fixed on the upper and lower edges, respectively, and an elongate plate member fixed to and running between the flanges and parallel to the elongate web, with the elongate plate member extending upwardly beyond the upper flange;
- b) wherein some of the I-beams run about a perimeter of the shelter;
- c) wherein some of the I-beams run into the shelter, which such I-beams engaging I-beams which run about the perimeter;
- d) wherein some of the I-beams are spaced from the I-beams which run about the perimeter of the shelter, with such I-beams engaging other I-beams in the shelter;
- e) wherein at least two of the I-beams engage each other at an angle; and
- f) at least two wall portions, with one of the wall portions on one of said at least two I-beams which engage each other at an angle and with the other of the two wall portions on said other at least two I-beams which engage each other at an angle, and with the wall portions interlocking each other.

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27. A support structure for a shelter comprising, in combination:

- a) a plurality of I-beams, with each of the I-beams comprising an elongate web with upper and lower edges, upper and lower flanges fixed on the upper and lower edges, respectively, and an elongate plate member fixed to and running between the flanges and parallel to the elongate web, with the elongate plate member extending upwardly beyond the upper flange;
- b) wherein some of the I-beams run about a perimeter of the shelter;
- c) wherein some of the I-beams run into the shelter, which such I-beams engaging I-beams which run about the perimeter;
- d) wherein some of the I-beams are spaced from the I-beams which run about the perimeter of the shelter, with such I-beams engaging other I-beams in the shelter;
- e) wherein at least two of the I-beams engage each other at an angle;
- f) wherein at least one of the I-beams includes a splice formed by two adjacent I-beam portions; and
- g) wherein the shelter includes a post and a rafter engaged to the post, and with the post being disposed on the splice to distribute load from the rafter to each of the I-beam portions.

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28. A support structure for a shelter comprising, in combination:

- a) a plurality of I-beams, with each of the I-beams comprising an elongate web with upper and lower edges, upper and lower flanges fixed on the upper and lower edges, respectively, and an elongate plate member fixed to and running between the flanges and parallel to the elongate web, with the elongate plate member extending upwardly beyond the upper flange;
- b) wherein some of the I-beams run about a perimeter of the shelter;
- c) wherein some of the I-beams run into the shelter, which such I-beams engaging I-beams which run about the perimeter;
- d) wherein some of the I-beams are spaced from the I-beams which run about the perimeter of the shelter, with such I-beams engaging other I-beams in the shelter;
- e) wherein at least two of the I-beams engage each other at an angle; and
- f) wherein the shelter includes a floor portion engaged on at least some of the I-beams running about the perimeter of the shelter, on at least some of the I-beams which run into the shelter, and on at least some of the I-beams which are spaced from the I-beams which run about the perimeter, with the floor portions having a section which is openable to form a slot in the floor portion and expose at least an elongate portion of the upper flange of at least one of the I-beams.

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